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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/298,160	04/22/1999	DAN G. CUSTER	MI22-1172	1753
21567 75	05/29/2003			
WELLS ST. JOHN ROBERTS GREGORY & MATKIN P.S. 601 W. FIRST AVENUE SUITE 1300 SPOKANE, WA 99201-3828			EXAMINER	
			OLSEN, ALLAN W	
			ART UNIT	PAPER NUMBER
			1763	24
			DATE MAILED: 05/29/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

		+				
,	Application N .	Applicant(s)				
	09/298,160	CUSTER ET AL.				
Offic Action Summary	Examin r	Art Unit				
	Allan W. Olsen	1763				
The MAILING DATE f this communication app ars on the cover sheet with the corresp ndence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).  Status						
1) Responsive to communication(s) filed on <u>02 Ju</u>	<u>uly 2002</u> .					
2a) This action is <b>FINAL</b> . 2b)⊠ Thi	s action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims						
4)⊠ Claim(s) <u>1,3-5,39-42 and 44-48</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1,3-5,39-42 and 44-48</u> is/are rejected.						
7)  Claim(s)						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accept	ted or b)⊡ objected to by the Exan	niner.				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12)☐ The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
<ul> <li>a) ☐ The translation of the foreign language prov</li> <li>15) ☐ Acknowledgment is made of a claim for domestic</li> </ul>	isional application has been rece	ived.				
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal Pa	PTO-413) Paper No(s)  tent Application (PTO-152)				

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#### **DETAILED ACTION**

#### Withdrawn From Issue

A Notice of Withdrawal From Issue, under 37 CFR 1.313(b), was mailed to Applicant on December 2, 2002.

## Allowability Withdrawn

Applicant is advised that the Notice of Allowance mailed September 23, 2002 is vacated. If the issue fee has already been paid, applicant may request a refund or request that the fee be credited to a deposit account. However, applicant may wait until the application is either found allowable or held abandoned. If allowed, upon receipt of a new Notice of Allowance, applicant may request that the previously submitted issue fee be applied. If abandoned, applicant may request refund or credit to a specified Deposit Account.

The indicated allowability of claims 1, 3-5, 39-42 and 44-48 is withdrawn. Prosecution is re-opened on the basis of the following, newly asserted, rejections.

### Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1, 3-5, 39-42 and 44-48 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

Claim 1 recites "...wherein the injecting the gas into the degasified liquid increases the total dissolved gas concentration in the liquid from about 450 ppb to about 550 ppb". The specification describes the concentration of the *second* gas as between 450-550 ppb, but not the *total* gas concentration as being that amount.

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Claims 3-5, 39-42 and 44-48, by virtue of their dependency upon claim 1, are likewise directed to the above noted subject matter which was not described in the specification.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1 3-5, 39 and 44-46 are rejected under 35 U.S.C. 103(a) as being unpatentable over admitted prior art in view of U.S. Patent 5,783,790 issued to Mitsumori et al. (hereinafter, Mitsumori).

Applicant's admitted prior art teaches that it is desirable to use degassed water in semiconductor fabrication processes and that the currently utilized degasification procedures degas to a level of 4ppb of oxygen (or about 20 ppb total gases, since the composition of the dissolved gas will roughly mirror that of earth's atmosphere (4:1 nitrogen to oxygen). See pages 1 and 7 of the instant specification.

The admitted prior art does not teach regasifying the liquid.

Mitsumori teaches gasifying a semiconductor processing liquid to 500 ppb of ozone.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to regasify the degassed liquid of the admitted prior art to a level of 500 ppb ozone because Mitsumori teaches that this will ensure the complete removal of surfactants from the surface of processed wafers.

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### C nclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Allan Olsen whose telephone number is 703-306-9075. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Shrive Beck, can be reached on 703-308-2333.

The general fax numbers for TC1700 are 703-872-9310 (non-after finals) and 703-872-9311(after-final).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0661.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Allan Olsen whose telephone number is 703-306-9075. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Greg Mills, can be reached on 703-308-1633.

The general fax numbers for TC1700 are 703-872-9310 (non-after finals) and 703-872-9311(after-final).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0661.

All 1763

Allan Olsen, Ph.D.

April 24, 2003